

ALC
correl
of, and 3' to, the GAL1 promoter. The resulting plasmids were transformed into yeast as described in Example 1.--

✓
Please add the enclosed Sequence Listing to the application after the figures.

In the Claims:

✓
Please cancel claims 1-9, 14-15, and 18-30.

✓
The pending claims, including claim 10 as amended, are as follows.

Please amend claim 10 as follows:

A7
10. (Amended) An isolated polypeptide selected from the group consisting of: a polypeptide having at least 80% sequence identity to SEQ ID NO:2, a polypeptide having at least 80% sequence identity to SEQ ID NO:4, a polypeptide having at least 80% sequence identity to SEQ ID NO:6, a polypeptide having at least 80% sequence identity to SEQ ID NO:12, and a polypeptide having at least 80% sequence identity to SEQ ID NO:14.

11. The polypeptide of claim 10, wherein said amino acid sequence is SEQ ID NO:2.
12. The polypeptide of claim 10, wherein said amino acid sequence is SEQ ID NO:4.
13. The polypeptide of claim 10, wherein said amino acid sequence is SEQ ID NO:6.
16. The polypeptide of claim 10, wherein said amino acid sequence is SEQ ID NO:12.
17. The polypeptide of claim 10, wherein said amino acid sequence is SEQ ID NO:14.

Please add the following new claims:

- A8
31. An isolated polypeptide having the amino acid sequence of SEQ ID NO:8.

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32. An isolated polypeptide having the amino acid sequence of SEQ ID NO:10.
33. A transgenic plant containing a nucleic acid that encodes a polypeptide selected from the group consisting of: a polypeptide having at least 80% sequence identity to SEQ ID NO:2, a polypeptide having at least 80% sequence identity to SEQ ID NO:4, a polypeptide having at least 80% sequence identity to SEQ ID NO:6, a polypeptide having at least 80% sequence identity to SEQ ID NO:12, and a polypeptide having at least 80% sequence identity to SEQ ID NO:14.
34. The plant of claim 33, wherein expression of said nucleic acid is tissue-specific.
35. The plant of claim 34, wherein said expression is epidermal cell-specific expression.
36. The plant of claim 34, wherein said expression is seed-specific expression.
37. The plant of claim 33, wherein said plant has altered levels of very long chain fatty acids in seeds compared to the levels in a plant lacking expression of said nucleic acid.
38. A transgenic plant containing a nucleic acid that encodes a polypeptide having the amino acid sequence of SEQ ID NO:8.
39. A transgenic plant containing a nucleic acid that encodes a polypeptide having the amino acid sequence of SEQ ID NO:10.
40. A method of altering the levels of very long chain fatty acids in a plant, comprising the step of:
introducing a nucleic acid construct into a plant, wherein said nucleic acid construct encodes a polypeptide selected from the group consisting of: a polypeptide having at least 80% sequence identity to SEQ ID NO:2, a polypeptide having at least 80% sequence

[illegible]